

WHAT IS CLAIMED IS:

1. A system for providing a plurality of operating systems for operating a computational device, the system comprising:

- (a) a first hard disk drive for storing a first operating system, said first hard disk drive being operated by the computational device;
- (b) a second disk drive for storing a second operating system, said second hard disk drive being operated by the computational device; and
- (c) a hard disk drive communication controlling device for controlling a function of each of said first hard disk drive and said second hard disk drive, such that only one of said first hard disk drive and said second hard disk drive is operable at a particular time.

2. The system of claim 1, further comprising:

- (d) a power supply for supplying power to each of said first hard disk drive and said second hard disk drive, such that only one of said first hard disk drive and said second hard disk drive receives power at a time, as determined by said hard disk drive communication controlling device.

PROSECUTOR'S COPY

3. The system of claim 2, further comprising:
 - (e) a first power line from said power supply to power a motor of each of said first hard disk drive and said second hard disk drive; and
 - (f) a second power line from said power supply to power a logical circuitry of each of said first hard disk drive and said second hard disk drive, such that at least one of said first power line and said second power line is disconnected from said power supply to block power to one of said first hard disk drive and said second hard disk drive.

4. The system of claim 3, wherein only said first power line is disconnected to said motor of one of said first hard disk drive and said second hard disk drive to block said power.

5. The system of claim 1, further comprising:
 - (d) a first communication line for communicating with said first hard disk drive; and
 - (e) a second communication line for communicating with said second hard disk drive, such that one of said first and second communication lines is blocked to block communication to one of said first hard disk drive and said second hard disk drive.

6. The system of claim 1, further comprising:
 - (d) a communication line for communicating between the computational device and each of said first hard disk drive and said second hard disk drive, such that only one of said first hard disk drive and said second hard disk drive communicates with the computational device at a particular time, as determined by said hard disk drive communication controlling device.

7. The system of claim 1, further comprising:
 - (d) a network card for communicating with each of a plurality of network lines; and
 - (e) a network switcher for determining a connection to one of said plurality of network lines.

8. The system of claim 7, wherein said network switcher permits access to a first type of network line if said first hard disk drive is accessible, and permits access to a second type of network line if said second hard disk drive is accessible.

9. The system of claim 8, wherein said first type of network line is a LAN (local area network).

10. The system of claim 8, wherein said second type of network

line is at least one of a WAN (wide area network) and the Internet, or a combination thereof.

11. The system of claim 1, further comprising:

- (d) a floppy disk drive; and
- (e) a floppy disk drive communication controlling device for controlling a function of said floppy disk drive, to determine if said floppy disk drive is operable.

12. The system of claim 1, wherein said hard disk drive communication controlling device switches between said first hard disk drive and said second hard disk drive only after blocking power to the computational device.

13. The system of claim 12, wherein said hard disk drive communication controlling device is manually controlled by a user.

14. A hardware boot management device for a computational device, comprising:

- (a) a plurality of peripheral devices for being operated by the computational device; and
- (b) a hardware manager for determining whether each of said plurality of peripheral devices is operable.

TOP SECRET//COMINT

15. The management device of claim 14, further comprising:

(c) a power supply for supplying power to each of said plurality of peripheral devices, such that at least one of said plurality of peripheral devices does not receive power at a time, as determined by said hardware manager.

16. The management device of claim 14, further comprising:

(c) a communication line for communicating between the computational device and each of said plurality of peripheral devices, such that at least one of said plurality of peripheral devices cannot communicate with the computational device at a particular time, as determined by said hardware manager.

17. The management device of claim 14, wherein said hardware manager switches between at least one of said plurality of peripheral devices only after blocking power to the computational device.

18. The management device of claim 14, wherein said hardware manager is manually controlled by a user.

19. A method for providing security for operation of a computational device, the computational device being capable of at least one

external connection, the method comprising:

providing a plurality of hardware storage devices, each hardware storage device featuring operating system information;
determining a state of said at least one external connection;
selecting a hardware storage device for operation according to said state; and
operating the computational device according to said operating system information being stored on said selected hardware storage device.

20. A system for providing isolated memory for a computational device, the system comprising:

(a) a hardware memory component being operated by the computational device; and
(b) a hard disk drive communication controlling device for controlling a function of said hardware memory component such that said hardware memory component is isolated from a remainder of the computational device to provide the isolated memory.

21. The system of claim 20, further comprising:

(c) a second hardware memory component for being operated by the computational device, such that only one of said hardware

PENDING PCT/US01/05000

memory components is selected for operation at a time by said hard disk drive communication controlling device.

22. A system for providing a secure operating system for a computational device, comprising a read-only hardware memory component for storing the secure operating system.

23. The system of claim 22, wherein said read-only hardware memory component is a chip.

24. A method for providing security for operation of a computational device, the computational device being capable of at least one external connection, the method comprising:

 providing a plurality of hardware storage devices, wherein at least one hardware storage device is always operational;
 determining a state of said at least one external connection;
 selecting at least a second hardware storage device for operation according to said state; and
 operating said selected hardware storage device.

25. The method of claim 24, wherein said at least one external connection is a network connection, such that if said network connection is accessible to the computational device, said state is such that said at least a

OPENED FOR FILING

second hardware storage device is not selected for operation.

26. The method of claim 24, wherein said at least one external connection is a network connection, such that if said network connection is a LAN (local area network), said state is such that said at least a second hardware storage device is selected for operation.

27. The method of claim 24, wherein said at least one external connection is at least one of an Internet connection and a WAN (wide area network) connection, such that if said Internet connection is accessible to the computational device, said state is such that said at least a second hardware storage device is not selected for operation.

28. The method of claim 24, further comprising:
detecting a requirement for restoring at least one type of data to the computational device; and
selecting at least one hardware storage device for operation according to said requirement for data restoration.

29. The method of claim 24, wherein access to said hardware storage device is determined through a controller for each such hardware storage device.

SEARCHED INDEXED
SERIALIZED FILED

30. The method of claim 29, wherein said controller is at least one of a IDE bus controller, a SCSI controller and a RAID drive controller.

卷之三